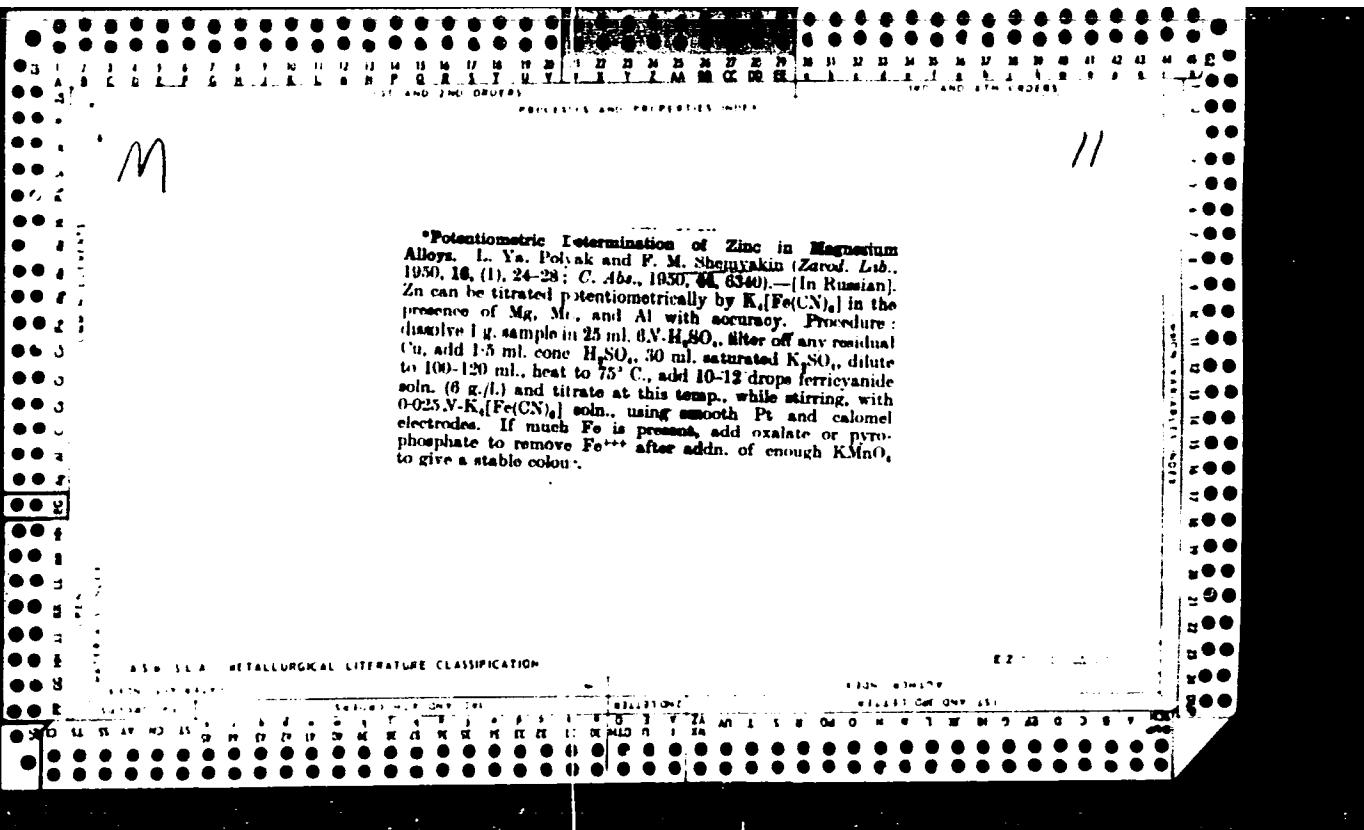


New method for determination of molybdenum in steels  
by means of  $\delta$ -naphthoquinoline. R. B. Golubsova and  
F. M. Shemyakin, Zhur. Anal. Khim. 4, 292-3 (1949);  
cf. C.A. 43, 7372a.  $\delta$ -Naphthoquinoline pptd. Mo  
completely in concns. of 0.45-35%. The separ. of W and  
Mo by means of  $\delta$ -naphthoquinoline depends on the  
acidity of the medium. Mo is pptd. in a weakly acid  
(litmus) medium. M. Hirsch

C. f.

2

Importance of chromatographic adsorption for the formation of rhythmic structures. E. M. Shemyakin. *Kolloid-Zhur.* 12, 302-5 (1951); cf. C.A. 43, 7788c. When periodic ppts. of RY form during diffusion of RX into MY soln., the RY ppts. act as chromatographic adsorbents on RX. The ions of MX are less retarded by the ppts. and diffuse ahead of RY ions. This explains the discrete formation of ppts. The results of diffusion of MY into RX soln. may be different from those of diffusion of RX into MY because RY may differently adsorb MY and RX. If the ppt. formed  $t$  sec. after start of diffusion, is  $x$  cm. from the original boundary, then  $x = x_0(1 - e^{-kt})$ ,  $x_0$  and  $k$  being const. This equation is valid for several literature data.  $k$  is 100-1000 times as great for macroscopic as for microscopic ppts. 1-1-B



CA

7

Colorimetric determination of small amounts of aluminum in steel, metallic chromium, and cobalt. E. M. Shemyakin and S. I. Barskaya. *Zarodskaya Lab.* 16, 278-80(1960).—"Amino Bright Blue FCF" (a triazo dye prep'd. from 1-hydroxy-2-amino-4-naphthaleneaussonic acid, 1,4-diamino-6-naphthalenesulfonic acid, and 2,5-dimethoxy-1,4-phenylenediamine) retains its blue color in the presence of Mg, Mn, Cu, Zn, and Ni, but a trace of Al gives a pale-violet color. The color is const. with 1.2-0.6 γ of Al per ml. The best results are obtained with 1.2-4.8 γ of Al. The concn. of dye is best at 0.02%, and 2 ml. of 0.01 N soln. should be present. To det. Al in Cr or Co treat the sample with dil. H<sub>2</sub>SO<sub>4</sub>, boil with HNO<sub>3</sub> until N oxides are expelled, filter off SiO<sub>2</sub>, neutralize with NH<sub>4</sub>OH, add 5 ml. of 18 N H<sub>2</sub>SO<sub>4</sub>, and electrolyze with a Hg cathode. Treat the electrolyzed soln. with 1 ml. dye soln. and 2 ml. 0.01 N H<sub>2</sub>SO<sub>4</sub>, and compare the color with that of a standard soln. contg. 1.2 γ Al per ml  
G. M. Kosolapoff

SHEMYAKIN, F. M.

PA 163T5

USSR/Chemistry - Iron, Determination Jun 50

"Chromatographic Determination of Iron Traces in Concentrated Sulfuric Acid," F. M. Shemyakin, E. S. Mitselovskiy

"Zavod Lab" Vol XVI, No 6, p 748

Describes method developed and used by authors for determining traces of iron in concentrated chemically pure sulfuric acid when usual reaction with formation of Prussian blue is not sufficiently sensitive. Reaction sensitivity is 6 γ. Method is simple and convenient for application in any laboratory.

163T5

SHEMYAKIN, F. M.

PA 169T59

USSR/Metals - Analysis

Sep 50

"Determination of Molybdenum in Ferrochromomolybdenum Alloys With Application of Cationite," F. M. Shemyakin, I. P. Kharlamov, E. S. Mitselovskiy

"Zavod Lab" Vol. XVI, No 9, pp 1124

Describes method for determination of Mo in Fe-Cr-Mo-alloy with aid of sulfocarbon, from which cations were removed by treatment with hydrochloric acid. Method gives slightly lowered but quite satisfactory results.

169T59

CA

7

Determination of molybdenum in iron-chromium-molybdenum alloys with ion-exchange resin. F. M. Sheguyskii, P. V. Kharlamov, and E. S. Mitselovskii. *Zarodskaya Lab.*, 16, 1126(1950) — Dissolve the sample in dil. HCl (and HNO<sub>3</sub> as usual) and pass over sulfonated ion-exchange resin; elute the adsorbed Mo with 3% NaOH and det. the Mo conventionally (permanganate method). Results are consistent but about 0.2% low. G. M. Kosolapoff

DUBININ, M.M., akademik, otvetstvennyy redaktor; GAPON, Ye.N.; GAPON, T.B.; ZHYPAKHINA, Ye.S.; RACHINSKIY, V.V.; BELEN'KAYA, I.M.; SHUVAEVA, G.M.; ROGINSKIY, S.Z.; YANOVSKIY, N.I.; FUKS, N.A.; KISELEV, A.V.; NEYMARK, I.Ye.; SLINYAKOVA, I.B.; KHATSET, F.I.; LOSEV, I.P.; TROSTYANSKAYA, Ye.B.; TEVLINA, A.S.; DAVANKOV, A.B.; SALDAZIS, K.M.; BRUMBERG, Ye.M.; ZILDKOVA, Z.V.; VEDENEYEVA, N.Ye.; NAPOL'SKIY, S.A.; MIKHAYLOVA, Ye.A.; KAZANSKIY, B.A.; RYABCHIKOV, D.I.; SHENYAKIN, I.M.; KHETOVICH, V.L.; BUNDEL', A.A.; SAVINOV, B.G.; VENDT, V.P.; EPSTEIN, M.M.

[Research in the field of chromatography transactions of the All-Union Conference on Chromatography, November 21-24, 1950] Issledovaniia v oblasti khromatografii; trudy Vsesoiuznogo soveshchaniia po khromatografii, 21-24 noiabria 1950 g. Moskva, Izd-vo Akademii nauk SSSR, 1952. 225 p.  
(MLRA 6:5)

1. Akademiya nauk SSSR. Otdelenie khimicheskikh nauk.  
(Chromatographic analysis)

SHEMYAKIN, F. M. Prof., KARPOV, A. N., DOCENT  
ZELIKSON, YU. I., SHEKHTER, L. I.

Chemistry, Analytical - Quantitative

Quantitative determination of copper by the maximum dilution method. Apt. deko no. 4,  
1952.

Monthly List of Russian Accessions, Library of Congress. November, 1952. UNCLASSIFIED

1. SHEMYAKIN, F. M.; RODINOV, D. V.
  2. USSR (400)
  4. Permutite
  7. Influence of the composition of permutites on their chromatographic properties.  
Koll.zhur. 14 no.5, 1952.
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

SHEMYAKIN, F. M.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549020017-2

CATALYST

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
General and Physical Chemistry

Effect of the composition of zeolites on their chromatographic properties. F. M. Shemyakin and D. V. Rodinov.  
Colloid J. (U.S.S.R.) 14, 407-9 (1952) (Engl. translation).  
See C.A. 47, 14808.

H. L. H.

92-51  
88

SHEMYAKIN, F.M.; KARPOV, A.N.; MEDVEDEVA, N.K.; DOBRYNINA, V.I., dotsent, di-rektor.

Chromatograms of vegetable extracts. Apt.delo 2 no.3:19-22 My-Je '53.  
(MLRA 6:6)

1. Moskovskiy farmatsevticheskiy institut Ministerstva zdravookhraneniya  
SSSR. (Extracts) (Chromatographic analysis)

KHOKHLOVA, O.I.; SHEMYAKIN, F.M., professor, zuvezdnyushchiy; DOBRYNINA, V.I.,  
dotsent, direktor.

Determination of admixtures of heavy metals in pharmaceutical preparations,  
by the method of chromatographic analysis. Apt.delo 2 no.3:22-25 My-Je '53.  
(MLRA 6:6)

1. Kafedra analiticheskoy khimii Moskovskogo farmatsevticheskogo instituta  
Ministerstva zdravookhraneniya SSSR (for Khokhlova and Shemyakin). 2. Mo-  
skovskiy farmatsevticheskiy institut Ministerstva zdravookhraneniya SSSR  
(for Dobrynina).  
(Chromatographic analysis)

Shemyakin, F. M.

Precipitation chromatography as a means of separating organic ingredients of pharmaceutical mixtures. F. M. Shemyakin, A. A. Andreev, L. I. Gumanov, and V. V. ~~U.S.S.R.~~ Moscow Pharm. Inst. Ministry of Health, U.S.S.R.). Aptekarskii Delo 2, No. 5, 33-9(1953).—The method is based on the difference between the solv. of the compds. which are formed as a result of interaction between the ingredients of a mixt. and the precipitant. The zones follow each other in order of increasing solv. A column 100 mm. high and 8-10 mm. in diam. is filled up to 70-80 mm. with a mixt. contg. a precipitant, phosphorescent ZnS, and a carrier  $\text{Al}_2\text{O}_3$ , starch, silica gel, etc. The column is placed in a dark chamber illuminated by a quartz lamp. The zones contg. the ppts. stand out as dark strips on a lighted background. The method was applied to the sepn. of salts of formic, citric, oxalic, carbonic, and benzoic acids with alumini; as carrier. These salts form colored ppts. with Cu and noncolored with Ba. However, when more than 2 acids are present the zones cannot be distinguished from each other. After 25-30 hrs., while still abutting, they stand out distinctly. Cu, Co, and Fe salts can be sepd. with the aid of carbostyryl as a precipitant and bentonite as carrier.  $\text{NH}_4$  benzoate and silica gel as carrier make possible the sepn. of Cu, Cr, Co and Al, Fe, Cr and Co. Aminopyrine and Urotropin can be sepd. with the aid of  $\text{Cu}(\text{NO}_3)_2$  and  $\text{Al}_2\text{O}_3$  as carrier. On the other hand by using aminopyrine or Urotropin as precipitant it is possible to sepn. Pb and Cu. Cu, Pb, and Fe can be sepd. with aspirin as precipitant and  $\text{Al}_2\text{O}_3$  with  $\text{CaCO}_3$  as carriers. The quality of the chromatogram depends on the concn. of the solutes, of the precipitant in the carrier, nature of the carrier, and width of the column. Time is also a factor helping to make the zones stand out more distinctly. A. S. Mirkin

Shemyakin, F. M.

Physico-chemical analysis of the kinetics of chromatographic adsorption of cations on aluminum oxide, zeolite, and organic adsorbents. E. M. Shemyakin, E. S. Mitzelovskii, and D. V. Romanov. *Vysokomol. Khim. Anal.*, Akad. Nauk S.S.R. 23, 334-40 (1953). Chromatographs were obtained for pairs of salts taken from among  $\text{CuSO}_4$ ,  $\text{CoSO}_4$ ,  $\text{Cr}(\text{NO}_3)_3$ ,  $\text{Ni}(\text{NO}_3)_2$ , and  $\text{Fe}(\text{NO}_3)_3$ . In each series the concn. of one of the pairs of salts gradually increased while the concn. of the other salt gradually decreased. For each concn. a curve was plotted giving the change in width of the chromatographic band with time, and for each pair a curve was plotted giving the effect of concn. on the width of the band. As adsorbents were used  $\text{Al}_2\text{O}_3$ , zeolite, 8-hydroxyquinoline,  $\beta$ -naphthoquinoline, and cupferron. The exptl. results were used for testing the applicability of the Tavet formula to the rate of change of the width of the band. The formula is  $x_t = x(1 - e^{-kt})$ , where  $x_t$  is the width of the band at time  $t$  and  $x$  is the limiting width. From the exptl. results  $k$  was calc'd. On  $\text{Al}_2\text{O}_3$ ,  $k_{\text{Cu}^{++}} = 0.21$ ,  $k_{\text{Co}^{++}} = 0.18$ , and  $k_{\text{Cr}^{++}} = 0.15$ . On zeolite the corresponding values were  $k_{\text{Cu}^{++}} = 0.55$  and  $k_{\text{Co}^{++}} = 0.43$ . The results obtained on the org. adsorbents were similar. M. Hosek

SHEVYAKIN, F. N.

5

1627. Chromatography of alkaloid reactions. F. N. Shevyakin, A. W. Karpov and N. K. Nedvedeva  
*(Compt. Rend. Acad. Sci., U.S.S.R., 1953, 90 [3], 399-402).* The various standard reactions for alkaloids are much more specific if carried out chromatographically on  $\text{Al}_2\text{O}_3$  columns or on paper. The reactions of morphine with  $\text{HNO}_3$ ,  $\text{H}_2\text{SO}_4$  and  $\text{HNO}_3$ ,  $\text{H}_2\text{SO}_4$  and  $(\text{NH}_4)_2\text{VO}_4$ ,  $\text{FeCl}_3$ , and ammoniacal copper nitrate, and of codeine with  $\text{HNO}_3$ ,  $\text{H}_2\text{SO}_4$ ,  $\text{FeCl}_3$ , and Froehde's reagent, and various methods of determining both these alkaloids in a mixture are described.

R. C. MURRAY

SHEMYAKIN, F.M.; KARPOV, A.N.

Results of the study of rapid analysis of drugs in Moscow  
pharmacies and prospects of applying semimicroanalytic methods  
in pharmacies. Apt.delo 3 no.1:31-33 Ja-F '54. (MLRA 7:1)  
(Moscow--Pharmacy) (Drugs--Adulteration and analysis)

SHEMYAKIN, F.M.

USSR/Chemistry - Conference

Card 1/1 : Pub. 124 - 15/24

Authors : Shemyakin, F. M.

Title : Scientific session on industrial application of ion-exchange resins

Periodical : Vest. AN SSSR 9, 76-78, Sep 1954

Abstract : The numerous chemical, biological and medicinal applications of ion-exchange resins, are listed. Resolutions adopted by the special session of the Institute of Chemical Sciences regarding industrial application of ion-exchange resins are discussed.

Institution : Academy of Sciences USSR, Institute of Chemical Sciences

Submitted : ...

SHEMYAKIN, F.M.; MITSLOVSKIY, E.S.; ROMANOV, D.V.; TSYURUPA, N.N.,  
"APPROVED FOR RELEASE: 08/23/2000" CIA RDP86-00513R001549020017-2  
[Chromatographic analysis; introduction to theory and practice]  
Khromatograficheskiy analiz; vvedenie v teorii i praktiki. Moskva,  
Gos. nauchno-tekhn. izd-vo khim. lit-ry, 1955. 207 p. [Microfilm]  
(Chromatographic analysis) (MIRA 8:3)

SHEMYAKIN, Y.M.

Certain applications of chromatography in qualitative and quantitative analysis of cations. Trudy Kom.anal.khim. 6:268-276 '55.(MLRA 9:5)

1. Moskovskiy farmaceuticheskiy institut Ministerstva zdravookhreniya SSSR.

(Chromatographic analysis) (Cations)

SHEMYAKIN, F. M.

U S S R .

Characteristic chromatographic reaction for glucose and acetone. F. M. Shemyakin and O. S. Lobatkina (Pharm. Inst., Moscow). *Zhur. Anal. Khim.* 10, 66-8 (1955).-- Several procedures for the detection of glucose and acetone by paper chromatography and in absorbent columns are described. The procedures are intended primarily for detecting the 2 substances in urine. Three kinds of paper were used: chromatographic, ordinary filter paper, and ashless filter paper. By one procedure, on the paper place 2 drops of analysis soln., on top of it 1 drop of Cu citrate reagent, then 4-5 drops of developer ( $H_2O$ , alc., or acetone), and dry the paper for 3 min. at  $100^\circ$ . On the paper appeared colored concentric bands seen in daylight as well as under a quartz lamp. By another procedure, place on the paper 2 drops of glucose soln., 1 drop of 10% NaOH soln., 1 drop of 1%  $CuSO_4$  soln., and dry the paper for 2-5 min. at  $100^\circ$ . This too produced a chromatogram. In tests for acetone, place 2 drops of soln. on paper, then 1 drop of 95% furfural soln. in alc., and 1 drop of 10% NaOH. Dry the paper at  $100^\circ$  and place a drop of concd. HCl in the center of the spot. A bright-red color indicated the presence of acetone. Under a quartz lamp up to 8 bands could be seen; no such bands are seen in the absence of acetone. The same test was made with a  $SiO_2$ -gel column and passing through it 2 ml. of soln. being tested, 2 ml. furfural soln., 2 ml. NaOH, and 2 ml. HCl. Acetone was also detected with  $Na_2Fe-NO(CN)_6$  in which case 2 drops of soln. on paper is followed by 1 drop of 10% soln. of the reagent, 1 drop of 10% NaOH, and 1 drop of glacial AcOH. This test too was carried out on a  $SiO_2$ -gel column. Also in *J. Anal. Chem. U.S.S.R.* 10, 57-9 (1955) (Engl. translation). M. Hoseph

SHEMYAKIN, F.M., professor, doktor khimicheskikh nauk.

Valuable monograph ("Chromatographic adsorption analysis and its development." N.P. Brmelenko. Reviewed by F.M. Shemyakin). Vobtsi AN BSSR Ser.fiz.-tekhn. naus. no.1:139-140 '56. (MIRA 9:10)  
(Adsorption)

CHMUTOV, K.V.

CHMUTOV, K.V., otvetstvennyy redaktor; SHEMYAKIN, F.M., professor, otvetstvennyy redaktor; DAVANKOV, A.B., redaktor; RACHINSKIY V.V., redaktor; SALDADZE, K.M., redaktor; SENOV, P.L., professor, redaktor; TROSTYANSKAYA, Ye.V., professor, redaktor; YEGOROV, N.G., redaktor izdatel'stva; ASTAF'YEVA, G.A., tekhnicheskiy redaktor.

[Studies in ion-exchange chromatography; work of the conference on the application of ion-exchange chromatography in medical and food industry] Issledovaniia v oblasti ionoobmennoi khromatografii; trudy soveshchaniia po primeneniiu ionoobmennoi khromatografii v meditsinkoi i pishchevoi promyshlennosti. Moskva, 1957. 193 p.  
(MLRA 10:6)

1. Akademiya nauk SSSR. Komissiya po khromatografii. 2. Chlen-korrespondent Akademii nauk SSSR (for Chmutov)  
(Ion exchange) (Chromatographic analysis)

SHEMYAKIN, Fedor Mikhaylovich; KAR'OV, Aleksey Nikiforovich; BRUSENTSOV,  
Aleksandr Nikolayevich; KUVSHINSKIY, M.N., red.; LYUDKOVSKAYA, N.I.,  
tekhn.red.

[Analytical chemistry] Analiticheskaya khimiia. Moskva, Gos. izd-vo  
med.lit-ry. Pt.1. [Qualitative chemical semimicroanalysis for  
students at pharmaceutical institutes] Kachestvennyi khimicheskii  
polumikroanaliz dlia studentov farmatsevticheskikh institutov.  
(MIRA 11:6)  
1957. 389 p.  
(Chemistry, Analytical--Qualitative)

AUTHORS: Shemyakin, F. M., Mitselovskiy, E. S., and Kharlamov, I. P.

TITLE: Separation of Mixtures of Cations and Anions with the Aid of the Method of Paper Chromatography (Razdeleniye smesey kationov i anionov s pomoshch'yu metoda khromatografii na bumage)

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, No. 1, pp. 30-34 (U.S.S.R.)

ABSTRACT: This is a survey of literature on the subject of the separation of mixtures of cations and anions with the aid of the method of paper chromatography. The first complete description of the process is ascribed to Ardenn, Burstell, Davies, Lewis and Lundstead in 1948 (1). Earlier workers were Tanayev in 1919, Flood (2) in 1939, and Lederer (4) in 1949. The latter determined the value of the ratio, Rf. Rf was found to rise with the increase of cations in the mixture. The equation for the material balance for the chromatographic process was developed by Pickering and Jacobs (12). The paper may be used as a surface-active sorbent according to Strain (14). The chromatographic separation of mixtures of chlorides and sulfates of alkali metals is told by Viswanathan (45). Altogether there are 70 consecutively numbered references, which are taken up one by one with a brief description of the contribution of difference sources as in the samples given above. There are 70 references, of which 5 are Slavic.

Card 1/2

Separation of Mixtures of Cations and Anions with the  
Aid of the Method of Paper Chromatography

**ASSOCIATION:**

**PRESENTED BY:**

**SUBMITTED:**

**AVAILABLE:**

Card 2/2

SHEMYAKIN, F.M.

All-Union conference on chromatography. Izv. AN SSSR Otd. khim.  
nauk no.7:912-916 J1 '58. (MIRA 11:8)  
(Chromatography--Congresses)

SHEMYAKIN, F.M., TARASENKO, M.I.

Rapid gravimetric method for determining potassium in preparations containing the element. Apt.delo 7 no.3:51-54 My-Je '58 (MIRA 11:7)

1. Iz kafedry analiticheskoy khimii Moskovskogo farmatsevticheskogo instituta.  
(POTASSIUM)

BARSKAYA, S.I.; SHEMYAKIN, F.M.

Question of the determination of beryllium using Acid Alizarin  
Blue BB. Zav. lab. 24 no. 5:6/34 '58. (MIRA 11:6)  
(Beryllium—Analysis)

5(2), (3) PHASE : BOOK EXPLOITATION SOV 2164

Akademiya nauk SSSR. Otdeleniye khimicheskikh nauk. Komissiya po

Ionodorovaniyu v oblasti ionoobmennoy radiopredeliteli. Izdat. 1. ogranichennyj. Kromatografija (Studies in the Field of Ion Exchange. Distillation and Precipitation Chromatography). Moscow, Izd.-No AN SSSR, 1959. 150 p. Errata slip inserted.

Ed. of Publishing House: N.G. Tsvet. Ed. i. I.M. Oshenova; Editorial Board: K.V. Chatov, Corresponding Member USSR Academy of Sciences (res. Ed.); V.M. Shevaykin, Professor; K.M. Oshanova; Professor; K.M. Salidze, Docent; and N.N. Tunitskiy, Professor.

PURPOSE: This book is intended for chemists and chemical engineers.

GOVERNING: The book discusses studies in ion-exchange distribution, and precipitation chromatography. Various problems of the theory of chromatography and its application are also considered. Data in the book collection of articles published by the Committee on Chromatography. The first collection was published in 1954 under the title "Izdat. 1. Ialecovnaya v oblasti kromatografii" (Studies in the Field of Chromatography); the second was published in 1955 under the title "Teoriya i praktika pomekhnennogo ionoobmena" (Theory and Practice of the Use of Ion-Exchange Materials); and the third was published in 1957 under the title "Izdat. 1. Ialecovnaya v oblasti ionoobmennoy kromatografii" (Studies in the Field of Ion-exchange Chromatography). No personalities are mentioned. References are given after most of the articles.

Davydov, A.T. and G.M. Linnik. Study of the Surface Value and the Exchange Energy of Cations on Wofatite With Relation to Temperature.

Rachinskaya, E.E. Theory of the Stationary Front of Dynamic Sorption.

Salidze, K.M., and Ye. N. Fadchikov. Effect of the Ionite Structure on the Ion Exchange Process.

Salidze, K.M., and Ye. A. Shevaykin. Kinetics of Cation Exchange Processes on Carbonylic Cationites.

Suturin, R., and Z.M. Shevaykin. Purification of Salts With the Aid of an Ion-exchange Counterflow Installation.

Pedosyan, O.P., N.M. Tunitskiy, and Ya.-P. Chernyav. Study of the Kinetics of Complete Cation Exchange on Sulphonated Resins.

Chernyav, Ye. P., A. B. Pashkov, S.R. Barabasov, and N.N. Tunitskiy. Change in the Selectivity of Strongly Acidic Monocarboxylic Cationites in Relation to the Concentration of Sulfo Groups and Interchain Bonds in Cationites.

Pedosyan, O.P., Ye. P. Chernyav, and N.N. Tunitskiy. Study of the Diffusion of Ions Through a Cationite Membrane.

Shevaykin, P.M. Organic Reagents Used in Adsorption and Distillation Chromatography. Their Classification, and Trends of Investigation.

Mitrokhin, E.S., and Y.M. Shevaykin. Some New Phenomena Which Accompany the Process of Electromigration or Organic Substances.

Polyantsev, N.G. Study of Thermal Desulfurization of Sulfophenylformaldehyde Resin KU-1.

Koplyova, V.D., and K.M. Oshanova. Precipitation Chromatography.

Koplyova, V.D., and K.M. Oshanova. Secondary Phenomena in

Precipitation Chromatography.

Oshanova, K.M., and N.M. Morozova. Determination of Calcium by the Precipitation Chromatography Method With the Indicator Murexide.

Oshanova, K.M., and Z.A. Kotoksova. Ion-exchange Paper Chromatography in Qualitative Analysis.

Orlova-Yana, M.V. Chromatographic Method of Qualitative Analysis for Pur Dyesurifics.

Salidze, K.M., K.M. Oshanova, and I.I. Ivanova. Sorption of Mineral Acids and of Their Salts on Cationites.

Gorbachev, M.A., and K.M. Salidze. Absorption of Complex Zinc Anions on Anionites With Different Basicity.

SHEMYAKIN, F.M.

Paper chromatography of drugs. Sbor. nauch. rab. MFI 2:15-20  
'59. (MIRA 14:1)

1. Kafedra analiticheskoy khimii (zav. - prof. F.M. Shemyakin)  
Moskovskogo farmatsevticheskogo instituta.  
(CHROMATOGRAPHIC ANALYSIS)  
(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)

SHEMYAKIN, F.M.

Applications of chromatographic analysis in pharmacy and in the production of medicines. Sbor. nauch. rab. MFI 2:21-24 '59.

(MIRA 14:1)

1. Kafedra analiticheskoy khimii (zav. - prof. F.M.Shemyakin)  
Moskovskogo farmatsevticheskogo instituta.  
(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)  
(CHROMATOGRAPHIC ANALYSIS)

SHEMYAKIN, F.M.

Course of development of chromatographic analysis. Sbor. nauch.  
rab. MFI 2:25-29 '59. (MIRA 14:1)

1. Kafedra analiticheskoy khimii (zav. - prof. F.M. Shemyakin)  
Moskovskogo farmatsevticheskogo instituta.  
(CHROMATOGRAPHIC ANALYSIS)

SHEMYAKIN, F.M.; PAVLOVSKAYA, N.A.

Some physicochemical techniques of studying the structure of  
vanadyl compounds. Sbor. nauch. rab. MFI 2:30-33 '59.  
(MIRA L.:1)  
1. Kafedra analiticheskoy khimii (zav. - prof. F.M. Shemyakin)  
Moskovskogo farmatsevticheskogo instituta.  
(VANADIUM SALTS)

SHEMYAKIN, F.M.; KARPOV, A.N.

Possibility of employing compounds of alkaloids with dyas in analytical chemistry. Sbor. nauch. rab. MFI 2:34-39 1959. (MIRA 14:1)  
1. Kafedra analiticheskoy khimii (zav. - prof. F.M. Shemyakin)  
Moskovskogo farmatsevticheskogo instituta.  
(DYES AND DYEING) (ALKALOIDS)

SHEMYAKIN, F.M.; BOGDANOVA, V.N.

Chromatographic analysis of body fluids for the presence of medicines.  
Sbor. nauch. rab. MFI 2:57-60 '59. (MIRA 14:1)

1. Kafedra analiticheskoy khimii, (zav. - prof. F.M. Shemyakin)  
Moskovskogo farmatsevticheskogo instituta.  
(CHROMATOGRAPHIC ANALYSIS) (BODY FLUIDS)  
(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)

SHEMYAKIN, F.M.; KARPOV, A.N.

Method for standardizing adsorbents, Sbor. nauch. rab. MFI 2:61-  
65 '59. (MIRA 14:1)

1. Kafedra analiticheskoy khimii (zav. - prof. F.M. Shemyakin)  
Moskovskogo farmatsevticheskogo instituta.  
(ADSORBENTS)

SHEMYAKIN, F.M.; BRUSENTSOV, A.N.; VOLKOVA, M.N.

Analysis of mixtures of certain cations by means of paper-strip chromatography. Sbor. nauch. rab. MFI 2:66-69 '59. (MIRA 14:1)

1. Kafedra analiticheskoy khimii (zav. - prof. F.M. Shemyakin)  
Moskovskogo farmatsevticheskogo instituta.

(CHROMATOGRAPHIC ANALYSIS) (COPPER SULFATE)  
(IRON SULFATE) (COBALT SULFATE)

SHEMYAKIN, F.M.; LOBAKHINA, O.S.

Possibility of determining urea, uric acid, proteins, tyrosine,  
bilirubin, urobilin by the chromatographic method. Sbor. nauch.  
rab. MFI 2:70-72 '59. (MIRA 14:1)

1. Kafedra analiticheskoy khimii (zav. - prof. F.M. Shemyakin)  
Moskovskogo farmatsevticheskogo instituta,  
(CHROMATOGRAPHIC ANALYSIS)  
(URINE—ANALYSIS AND PATHOLOGY)

SHEMYAKIN, F.M.; LOBAKHINA, O.S.

Method for the luminescence analysis of urine on chromatograms.  
Sbor. nauch. rab. MFI 2:73-82 '59. (MIRA 14:1)

1. Kafedra analiticheskoy khimii (zav. - prof. F.M. Shemyakin)  
Moskovskogo farmatsevticheskogo instituta.  
(URINE—ANALYSIS AND PATHOLOGY)  
(LUMINESCENCE)

SHEMYAKIN, F.M.; MEDVEDEVA, N.K.

Possibility of the chromatographic control of the infusion of  
medicinal plants. Sbor. nauch. rab. MFI 2:83-86 '59.  
(MIRA 14:1)  
1. Kafedra analiticheskoy khimii (zav. - prof. F.M. Shemyakin)  
Moskovskogo farmatsevticheskogo instituta.  
(BOTANY, MEDICAL) (CHROMATOGRAPHIC ANALYSIS)

SHEMYAKIN, F.M.

Physical, physicochemical, and chemical rhythmic processes.  
Sbor. nauch. rab. MFI 2:177-181 '59. (MIRA 14:1)

1. Kafedra analiticheskoy khimii (zav. - prof. F.M.Shemyakin)  
Moskovskogo farmatsevticheskogo instituta.  
(CHEMISTRY, PHYSICAL AND THEORETICAL)  
(HYDRODYNAMICS)

SHEMYAKIN, F.M.

Rhythmic cracks observed in the course of chemical reactions  
in gels. Sbor. nauch. rab. MFI 2:182-183 '59. (MIRA 14:1)

1. Kafedra analiticheskoy khimii (zav. - prof. F.M.Sheyakin)  
Moskovskogo farmatsevticheskogo instituta.  
(COLLOIDS)

SHEMYAKIN, F.M.; BOGDANOVA, V.N.

Rhythmic stratifications obtained in the diffusion of citrate blood through filter paper initially impregnated with a potassium ferrocyanide solution. Sbor. nauch. rab. MFI 2:184-189 '59.

(MIRA 14:1)

1. Kafedra analiticheskoy khimii (zav. - prof. F.M. Shemyakin)  
Moskovskogo farmatsevticheskogo instituta.  
(BLOOD--ANALYSIS AND CHEMISTRY)

5(0)

Sov/63-4-2-12/39

AUTHOR: Shemyakin, F.M., Professor

TITLE: The Modern Development of Chromatographic Analysis

PERIODICAL: Khimicheskaya nauka i promyshlennost', 1959, Vol 4, Nr 2,  
pp. 216-223 (USSR)

ABSTRACT: The various chromatographic methods have different fields of application. The ion exchange method is used in the investigation of water purification, of the salt content of blood, milk, and body fluids. Equations of the exchange isotherms of two and three ions, of the ion-exchange column, etc have been derived [Ref 4]. It has been shown [Ref 10, 11] that sorption or ion exchange alone is not yet chromatography, but that the process must be frequently repeated for obtaining a separation of components. The pores of sorbents are divided into macropores, transitional pores, micropores and ultramicropores. The chromatographic activity of bentonite clays from Georgia and the Ukraine is similar to that of coarsely porous silicagel [Ref 21]. Ionites are synthetic sorbents with a high molecular weight so that all their salts are insoluble. The reactions take place on the interface ionite-solution [Ref 22, 23]. Anion-exchange resins have been synthesized,

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## The Modern Development of Chromatographic Analysis

Sov/63-7-2-12/39

which contain amino-groups [Ref 24, 25]. The synthesis of ionites consists in the copolymerization of styrene, divinylbenzene, etc, or in the sulfonation, nitration and chloromethylation of copolymers. The solvent can transform the cationite into an anionite and vice versa. The effect of the solvents depends on their basicity and the dielectric constant [Ref 33]. Recently ionite membranes have been produced which serve as diaphragms in electrochemical processes [Ref 34]. The ion-exchange chromatography is used for the determination of crystal-lization water, for the separation of sulfate or phosphate ions, for the analysis of alkaloids and drug mixtures, and for the analysis of cations and anion mixtures without hydrogen sulfide [Ref 36-40]. It opens new possibilities for the application of organic reagents [Ref 41] which has been shown already by M.S. Tsvet. Chromatography has been applied recently to the analysis of alloys containing amphoteric and non-amphoteric ions [Ref 43] and for the separation of various elements, like cadmium and copper, cadmium and lead, niobium and tantalum, etc [Ref 45-48] employing the anionite EDE-10 [Ref 49].

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The Modern Development of Chromatographic Analysis

SOV/63-h-2-12/39

Chromatographic control methods are used in the production of sulfuric and nitric acids, phosphoric fertilizers, etc. A theory of the method must still be developed.

There are 74 references, 69 of which are Soviet, 4 English and 1 German.

Card 3/3

SHEMYAKIN, P.M.; BOGDANOVA, V.N.; LUBAKHINA, O.S.

Use of chromatography in pharmaceutical analysis. Apt.delo  
8 no.4:83-90 J1-Ag '59. (MIRA 12:10)  
(CHROMATOGRAPHIC ANALYSIS) (PHARMACY)

S T E M Y A K I N F.M.

SCF/75-144-50/50  
 AUTHOR: Billborich, G. E.  
 TITLE: Section of Analytical Chemistry of the VIIth Seminolev  
 Congress on General and Applied Chemistry  
 PERIODICAL: Journal analiticheskoy khimii, 1959, Vol 14, Kr. 4, pp 511-512  
 (ISSN)

Approximately 500 persons participated in the work of the Department of Analytical Chemistry. Among them representatives of various scientific research institutes, higher schools and industrial enterprises from Russia, Bulgaria, Poland, Hungary, and Italy. Approximately 70 reports were heard. In his opening speech S.P. Al'perov reported results and made some problems of analytical chemistry on the application of physico-chemical analysis in heterogeneous systems. V.I. Lutinov reported on problems of analytical chemistry in organic acids. A.A. Shabko showed at the example of halide and thiocyanate complexes the correlation between the stability of complexes and the position of the corresponding central atoms in the periodic system. V.A. Radchenko and V.M. Zhukov lectured on the stability of oximates of Cu, Co, and Ni as depending on the structure of the oxime molecule. V. P. Korobova lectured on the double character of reaction of some compounds in the formation of complexes. The problem of the application of heteropolyacids in analytical chemistry was dealt with in the lectures of N.N. Shakhova and A.V. Kostikov and M. A. Polubarnova. A large number of lectures dealt with the use of new organic reagents in analysis. V. V. Butina and M. I. Ivanov reported on the application of diaryl and diaryl-phosphoric acid for the separation of elements. A.I. Portnaya used aryl azido acid and aryl phosphinic acid. S.P. Lazarewsky and Z.B. Bokshitskaya and L.S. Lashko reported on new highly sensitive methods of spectrophotometry. They treated some properties of complex ions. The lecture of V.A. Mal'tsevskaya and V. V. Konovalova dealt with the photometric determination of a series of trivalent methodical and theoretical problems of spectral analysis (V. A. Mal'tsevskaya, A. I. Chernyakov, lectures on the use of atomic absorption in analytical chemistry). A. I. Chernyakov lectured on the determination of radioactive uranyl nitrophenate. V. V. Konovalova lectured on the determination of radioactive uranyl nitrophenate by flame photometry. Dr. I. Slobodyanov determined the concentration of elements by polarography (Dr. I. Slobodyanov, M. V. Morozhevskaya and L. A. Stolzberg) reported on new highly sensitive analysis methods in using fixed electrodes. The lecture of V. V. Konovalova and Yu. S. Ivaylikov and co-workers dealt with the application of flame photometry in the chemistry of uranium and thorium. V. M. Sengenov showed possibility of predicting the conditions of chromatographic separation of isotopes based on their position in the periodic system. Z. A. Serebryakova reported on the use of ion exchange in the investigation of the states of substances in solution. A. S. Verzhilid and T. A. Petrenko lectured on the chromatographic separation of a series of elements. A.G. Polubarnova and V. M. Chernikov and associates reported on the chromatographic proof of sulfonamide preparations in liquids of the organs. G.L. Starobinets and associates treated the application of high polymers in chromatographic analysis.

The lecture of A. A. Zhukovskiy and M. M. Terent'eva, O. Gulyayeva, and co-workers for the chromatographic identification of rare radioactive isotopes for the determination of some rare metal formation (O. Gulyayeva and co-workers) for the investigation of the co-precipitation mechanism of some rare metals with sulfide (M. A. Bushnya) and for determining rare elements by means of isotopic dilution (L.P. Kiseleva and co-workers). In the field of climatic organic sulfur compounds with the lectures of N. O. Kabanova, F. S. Zel'man and V. A. Moshkov, who mentioned the elaboration of several associates have also been for the elucidation of several rapid methods for the sulfide one method for sulfur, fluorine and silicic-acidic compounds.

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Card 3/4

CHMUTOV, K.V., otv.red.; SHEMYAKIN, F.M., red.; GAPON, T.B., red.; YELOVICH,  
S.Yu. # red.; SALDADZE, K.M., red.; TIMOFEEV, D.P., red.; LEVI,  
T.G., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[Chromatography, its theory and uses; proceedings of the All-Union  
Conference on Chromatography] Khromatografija, ee teorija i pri-  
menenie; trudy Vsesoiuznogo Soveshchaniia po khromatografii.  
Moskva, 1960. 462 p.  
(MIRA 13:7)

1. Akademija nauk SSSR. Otdelenije khimicheskikh nauk.  
(Chromatographic analysis)

SHEMYAKIN, F.M.; KARPOV, A.N.; BRUSENTSOV, A.N.; KUVSHINSKIY, M.N.,  
red.; LYUDKOVSKAYA, N.I., tekhn.red.

[Analytical chemistry] Analiticheskais khimiia. Moskva, Gos.  
izd-vo med.lit-ry. Pt.2. [Quantitative chemical analysis]  
Kolichestvennyi khimicheskii analiz. 1960. 389 p.

(Chemistry, Analytical--Quantitative) (MIRA 13:12)

SHEMYAKIN, F.M.

Organic reagents used in chromatography; their classification and the trend of research involving them. Trudy kom. anal. khim. 11:389-405 '60.  
(MIRA 13:10)

1. Moskovskiy farmatsevticheskiy institut.  
(Chemical tests and reagents) (Chromatographic analysis)

YAKOVLEV, Pavel Yakovlevich, kand. khim. nauk; FEDOROV, Aleksey Alekseyevich, inzh.; BUYANOV, Nikolay Vasil'yevich, kand. tekhn. nauk; DYMOM, A.M., dokt. khim. nauk, prof., retsenzent; SHEMYAKIN, F.M., dokt., khim. nauk, prof., retsenzent; KHALAMOV, I.P., kand. tekhn. nauk, retsenzent; VENETSKIY, S.I., red. izd-va; KLEYNMAN, M.R., tekhn. red.

[Analysis of data on metallurgical production; determination of microimpurities] Analiz materialov metallurgicheskogo proizvodstva; opredelenie mikroprimesei. Moskva, Gos. nauchno-tekh. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 316 p. (MIRA 14:7)  
(Metals—Analysis)

TERENT'YEV, A.P., otv.red.; ALIMARIN, I.P., red.; GEL'MAN, N.E., red.;  
KLIMOVA, V.A., red.; KRESHKOV, A.P., red.; KUZNETSOV, V.I., red.;  
LEVIN, E.S., red.; PODGAYSKAYA, Z.I., red.; RUKHADZE, Ye.G., red.;  
TAL'ROZE, V.L., red.; TSUKERMAN, A.M., red.; SHEMYAKIN, F.M., red.;  
SHEYNIKER, Yu.N., red.; YERMAKOV, M.S., tekhn.red.

[Conference on organic analysis] Soveshchanie po organicheskому  
analizu. Tezisy dokladov. Moskva, Izd-vo Mosk.univ., 1961. 170 p.  
(MIRA 14:4)

1. Soveshchaniye po organicheskому analizu. 1961.  
(Chemistry, Analytical--Congresses)  
(Chemistry, Organic--Congresses)

SHEMYAKIN, F.M.; KARPOV, A.N.

"Practical manual on pharmaceutical chemistry." Edited by P.L.  
Senov [prof.]. Reviewed by F.M.Shemyakin, A.N.Karpov, Apt. delo  
10 no. 3:8'-89 My-Jo '61. (MINA 14:7)  
(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)  
(SENCV, P.L.)

SHEMYAKIN, F.M.

Chromatographic analysis of organic compounds. Trudy Kom. anal. khim.  
13:196-205 '63. (MIRA 16'5)  
(Organic compounds) (Chromatographic analysis)

SHEVYAKIN, F.M.

Use of chromatography in pharmacy. Aptekh. delo 12 no.3:8-13  
(MIRA 17:2)  
My-Je '63

1. I Moskovskiy ordena Lenina meditsinskiy institut imeni  
Sechenova.

SHEMYAKIN, F.M., doktor khim. nauk

"Precipitation chromatography" by K.M. Ol'shanova, V.D.  
Kopylova, N.M. Morozova. Reviewed by F.M. Shemiakin. Vest.  
AN SSSR 33 no.12:109-110 D '63. (MIRA 17:1)

YAKOVLEV, N.V.; YUDAYIN, S.A.; SHEVYAKIN, F.M.

Quantitative determination of a morphine base by titration on  
the background of its luminescence in an acid medium. Izv.  
vys.ucheb.zav.;khim. i khim.tekh. 7 no. 1:66-69 '64.  
(MIRA 17:5)

1. Pervyy Moskovskiy meditsinskiy institut im. I.M.Sechenova,  
kafedra analiticheskoy khimii.

SHPYAKIN, F.M.; YROVKOV, N.V.;

New method for the qualitative determination of opium alkaloids.  
Izv.vys.ucheb.zav.,khim. i khim.tekh. 7 no. 1:165-167 '64.  
(MIRA 17:5)

I. Iurijev Moskovskiy meditsinskiy institut im. I.M.Sechenova,  
kafedra analiticheskoy khimii.

SHEMYAKIN, V.M., YAGOROV, N.V.

Qualitative reactions for atropine using fluorescence analysis.  
Apt. Velo 13 no.1:45-48 Ja-F '64. (MIRA 17:4)

I. Farmatsevticheskij fakul'tet I Moskovskogo ordena Lenina  
mejitsinskogo instituta imeni Sechenova.

DANILOVA, Ye.N.; SHMYAKIN, F.M.

Study of the ultraviolet absorption spectra of some pharmacological preparations. Apt. delo 12 no.5:38-41 S-6 '64.  
(MIRA 18.3)

I. I. Moskovskiy ordena Leningra meditsinskiy institut imeni Sechenova.

SHEMYAKIN, Fedor Mikhaylovich; STEPIN, Vasiliy Vasil'yevich;  
KHARLAMOV, I.P., red.

[Ion exchange chromatography in the analysis of metals]  
Ionenobmennyi khromatograficheski analiz metallov. Mo-  
skva, Metallurgija, 1965. 295 p. (MIRA 18:4)

SHEMYAKIN, F.M.; BFRDNIKOV, A.I.

Qualitative reactions in the identification of methylthiouracil.  
Apt. delo 14 no.5:63-65 S-O '65. (MIRA 18-11)

I. I Moskovskiy ordena Lenina meditsinskiy institut imeni  
A.M. Sechenova.

SHEMAKIN, F. M.

Pavlov, Ivan Petrovich 1849-1936

Concept in the works of I. M. Sechenov and I. P. Pavlov. Vop. filos. No. 2 1952.

9. Monthly List of Russian Accessions. Library of Congress, July 1952, Uncl.  
2

SHEMYAKIN, F.N.

USSR/Human and Animal Physiology - Nervous System.

R-12

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 71214 K.

Author : Shemyakin, F.N.

Inst :

Title : Problems of Thought and Speech Psychology.

Orig Pub : M. Akad. ped. nauk RSFSR, 1956, 295 pp.

Abstract : No abstract.

Card 1/1

- 152 -

"APPROVED FOR RELEASE: 08/23/2000

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SECRET

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ANAN'YEV, B.G., red.; KOSTYUK, G.S., red.; LEONT'YEV, A.N., red.; LURIYA, A.R., red.; MENCHINSKAYA, N.A., red.; RUBINSSTEIN, S.L., red.  
[deceased]; SMIRNOV, A.A., red.; TEPLOV, B.M., red.; SHEMYAKIN, F.N., red.; PONOMAREV, Ya.A., red.; LAUT, V.G., tekhn.red.

[Psychology in the U.S.S.R.] Psikhologicheskaja nauka v SSSR.  
Moskva. Vol.2. 1960. 653 p. (MIRA 14:1)

1. Akademiya pedagogicheskikh nauk RSFSR. Institut psichologii.  
(Psychology)

**HUNGARY**

SHEVTSARENKO, P. M., of the Moscow Psychological Institute (original-language version not given)

"Relation of Observation and Diagnostic Signs in Normal and Pathologic Cases"

Budapest, Magyar Psichológiai Szemle, Vol. 19, No. 4, 1967, pp. 401-407

Abstract (English summary modified): Author reports his tests on the relation of colors and spatial perceptions and their respective determinations.

Tests on the relations of colors and their determinations covered 100 colors. U. S. Munsell color plates were used. Two different words for colors were observed; i.e., according to words and according to colors. Tests of blind persons were also carried out. The tests reveal that the connection between the color descriptions and the colors themselves is via relation to two systems: the language and the perception-observation.

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CIA-RDP86-00513R001549020017-2"

**HUNGARY**

Budapest, Magyar Psichológiai Szemle, Vol. 19, No. 4, 1967, pp. 401-407

Following upon the tests bearing on spatial orientation: 150 adults staying in a room were requested to indicate the location of a certain, familiar wall known to them; a "double" test was performed. First they were asked to stand, then by making a turn of 180 degrees. Afterward were also tested changes in the perception between the two examinations were stated. We can draw the conclusion that perceptive differentiation and generalization are preceding the linguistic forms. Knowledge of the laws for language differentiation and generalization reflects the interconnection system. (Original Soviet document)

SEMJAKIN, F.N. [Shemyakin, F.N.]

"Thought and ways of its research" by S.L. Rubinshteyn. Reviewed by F.N. Shemyakin. Magy pszichol szemle 17 no.1:89-94 '60.

1. Pedagogiai Tudomanyok Akademija Pszichologiai Intezete laboratoriumank vezetoje.

SEMJAKIN, F.N. [Shemyakin, F.N.]

Relationship between observation and its linguistic signification  
in normal and pathological cases. Magy pszichol szemle 19  
no.4:401-407 '62.

1. Pszichologiai Intezet, Moszkva.

L 58720-65 EWT(m)/EWP(t)/EWP(b)/EWA(h) Feb 10  
AM5016871 BOOK EXPLOITATION

S/

17  
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Shemyakin, Fedor Mikhaylovich; Stepin, Vasiliy Vasilevich

Ion-exchange chromatographic analysis of metals (Iono-obmennyy khromatograficheskiy analiz metallov) Izd-vo "Metallurgiya", 1965. 295 p., illus., append. Errata slip inserted. 4832 copies printed. Editor: I. P. Kharlamov; Editor of the publishing house: O. M. Kamayeva; Technical editor: L. V. Dobuzhinskaya

TOPIC TAGS: chromatographic metals analysis, ion exchange chromatography

PURPOSE AND COVERAGE: This book was intended for specialists in analytic-chemical central and shop laboratories, for engineers in the metallurgical and machine-building industries, and for personnel in scientific-research institutes and higher educational institutions. The book is presented as a laboratory manual for metallurgical plants. Basic theoretical positions in ion-exchange chromatography are presented, sorbents used are listed, and their selection and standardization are described, as well as the apparatus used, the technique, and the application.

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2

of ion-exchange chromatography in metals analysis. The introduction was written by Professor A. M. Dymov, Doctor of Chemical Sciences.

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Ch. 2. Sorbents used, their selection and standardization --	116
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Card 2/3

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SUBMITTED: 29Jan65

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OTHER: 111

DATE ACQ: 03Jun65

Card 3/380P

SHEMYAKIN, G.

What should architecture be like. Sov.profsoiuzy 18 no.23:30-  
32 D '62. (MIRA 15:12)

1. Sekretar' Soyusa arkhitektorov SSSR.  
(Architecture—Designs and plans)

SHEMYAKIN, G.A., kand.arkhitektury

Present state and problems of architectural theory. Izv. ASIA  
no.4:46-63 '60. (MIRA 14:4)  
(Architecture)

POLYANSKIV, F.Ya., prof.; SHEMYAKIN, I.N., prof.; GLUKHAREV, L.I., dots.; ROMANCHENKO, L.N., kand. ekon. nauk; KAYYE, V.A., kand. ekon. nauk; MOTUS, P.P., kand. ekon. nauk; TYUSHEV, V.A., kand. ekon. nauk; ROMANCHENKO, L.N., kand. ekon. nauk; AVDAKOVA, Yu.K., kand. ekon. nauk, dots., red.; SPERANSKAYA, L., red.; VOSKRESENSKAYA, T., red.; NEZHANOV, V., mladshiy red.; NOGINA, N., tekhn. red.

[Economic history of capitalist countries]Ekonomicheskaya istoriya kapitalisticheskikh stran; kurs lektsii. Moskva, Sotsksgiz, 1962. 634 p.

(MIRA 16:2)

(Economic history)

SHEMYAKIN, I.N.; DOBRZHANSKIY, A.Ye., red.; KHAVAYEV, N.I., tekhn.red.

[Socialist transformation in the U.S.S.R. and its economic prerequisites] Sotsialisticheskie preobrazovaniia v SSSR i ikh ekonomicheskie predposyлki. Moskva, M-va vysshego obrazovaniia, 1959. 210 p. (MIRA 13:2)

1. Moscow. Gosudarstvennyy ekonomicheskii institut. 2. Zavoduyushchiy kafedroy Istorii narodnogo khozyaystva Moskovskogo gosudarstvennogo ekonomicheskogo instituta.  
(Russia--Economic conditions)

BUDNIK, G.I., kand.ekon.nauk; AVDAKOV, Yu.K., dotsent, kand.ekon.nauk; SARYCHEV, V.G., kand.ekon.nauk; PREOBRAZHENSKIY, A.A., kand.istor.nauk; AVDAKOV, Yu.K., dotsent, kand.ekon.nauk; POLYANSKIY, F.Ye., prof., doktor istor.nauk; ZUTIS, Ya.Ya. [Zutis, J.]; GULANYAN, Kh.G., prof., doktor ekon.nauk; GULANYAN, Kh.G., prof., doktor ekon.nauk; KONYAYEV, A.I., dotsent, kand.ekon.nauk; KHROMOV, P.A., prof., doktor ekon.nauk; SHALASHILIN, I.Ye., dotsent, kand.ekon.nauk; SHEMYAKIN, I.N., dotsent, kand.ekon.nauk; POGREBINSKIY, A.P., prof., doktor ekon.nauk; ORLOV, B.P., dotsent, kand.ekon.nauk; TYUSHEV, V.A., kand.ekon.nauk; BALASHOVA, A.V., kand.ekon.nauk; MOZHIN, V.P., kand.ekon.nauk; MINDAROV, A.T., dotsent, kand.ekon.nauk; SHIGALIN, G.I., prof., doktor ekon.nauk; GOLUBNICHII, I.S., prof., doktor ekon.nauk; VOSKRESENSKAYA, T., red.; BAKOVETS'KIY, O., mladshiy red.; MOSKVINA, R., tekhn.red.

[History of the national economy of the U.S.S.R.; lecture course]  
Istoriia narodnogo khoziaistva SSSR; kurs lektsii. Moskva, Izd-vo sotsial'no-ekon.lit-ry, 1960. 662 p. (MIRA 13:5)

1. Deystvitel'nyy chlen AN Latviyskoy SSR (for Zutis).  
(Russia--Eccnomic conditions)

POGREBINSKIY, A.P., prof.; BOBOVICH, I.M., dots.; AVDAKOV, Yu.K., dots.; PAZHITNOVA, T.K., dots.; CHUNTULOV, V.T., dots.; POLYANSKIY, F.Ya., prof.; FRIDBERG, I.Ya., dots.; DOROSHENKO, V.V., dots.; TALYBEKOV, S.Ye., prof.; FADEYEV, A.V., prof.; AMINOV, A.M., prof.; BOROVAY, S.Ya., prof.; KONYAYEV, A.I., dots.; SHEMYAKIN, I.N., prof.; PONYATOVSAYA, N.P., dots.; SARYCHEV, V.G., dots.; GOLUBNICHII, I.S., prof.; VOSKRESENSKAYA, T., red.; NEZNANOV, V., mlad. red.; MOSKVINA, R., tekhn. red.

[Economic history of the U.S.S.R.] Ekonomicheskaya istoriya SSSR. Moskva, Sotskiz, 1963. 509 p. (MIRA 17:2)

ZHITNYUK, R.I.; SHEMYAKIN, I.S.

Hernia of the xiphoid process. Vest.khir. no.1:141 '62.  
(MIRA 15:1)

1. Iz 2-y fakul'tetskoy khirurgicheskoy kliniki (nach. - prof.  
M.S. Lisitsyn [deceased]) Voyenno-meditsinskoy ordena Lenina  
akademii im. S.M. Kirova.  
(XIPHOID PROCESS--HERNIA)

SHEMYAKIN, I.S. (Leningrad, Irkutskiy per., d.5, kv.49)

Peculiarities of hemodynamic changes in patients operated on under  
potentiated anesthesia [with summary in English]. Vest.khir. 80  
(MIRA 11:5)  
no.4:101-107 Ap'58

1. Iz kafedry obshchey khirurgii No.2 (nach. - prof. M.S. Lisitsyn)  
Voyenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova.  
(HIBERNATION, ARTIFICIAL, eff.  
on blood circ. & pressure in surg. patients (Rus))  
(BLOOD CIRCULATION, physiol.  
eff. of artif. hibernation in surg. patients (Rus))  
(BLOOD PRESSURE, physiol.  
same)

SHEMYAKIN, I.S. (Leningrad, Institutskiy per., d.5, kv.49)

Modifications of some hemodynamic indicators in patients operated  
on under potentiated anesthesia. Vest.khir. 83 no.10:117-123 O '59.  
(MIRA 13:2)

I. Iz fakul'tetskoy khirurgicheskoy kliniki No.2 (nachal'nik - prof.  
M.S. Lisitsyn) Voyenno-meditsinskoy ordena Lenina akademii im. S.M.  
Kirova.

(HIBERNATION, ARTIFICIAL pharmacol.)  
(BLOOD CIRCULATION pharmacol.)

KHESIN, R.B.; GORLENKO, Zh.M.; SHEMIAKIN, M.F.; BASS, I.A.; PROZOROV, A.A.

Relation between protein synthesis and the regulation of the  
formation of messenger DNA in the cells of Escherichia coli B  
during the development of T<sub>4</sub>-phage. Biokhimiia 28 no.6:1070-1086  
N-D'63 (MIRA 17:1)

1. Institute of Atomic Energy, Moscow.

LISITSYN, M.S., zasluzhennyy deyatel' nauki, prof.; SHEMYAKIN, I.S., kand.  
med.nauk

Potentiated local anesthesia. Nov. khir. arkh. no.4:116-117 Jl-Ag '60.  
(MIRA 15:2)

1. Kafedra fakul'tetskoy khirurgii II Voyenno-meditsinskoy ordena  
Lenina akademii imeni S.M.Kirova (nachal'nik - prof. M.S.Lisitsyn).  
Adres avtorov: Leningrad, Zagorodnyy per., d.47, 2-ya fakul'tetskaya  
khirurgicheskaya klinika.

(LOCAL ANESTHESIA)

CHEREMISINOV, N.A.; SHEMYAKIN, I.Ya. (Voronezh)

"Manual for the identification of house fungi" by A.S.Bondartsev.  
Reviewed by N.A.Cheremisinov. Bot.zhur. 43 no.12:1766-1767  
D '58. (MIRA 11:12)  
(Wood-decaying fungi) (Bondartsev, A.S.)

GRISHCHENKO, M.N., red.; KRASOVSKAYA, S.A., red.; ADERIKHEN, P.G.,  
red.; BARABASH-NIKIFOROV, I.I., red.; VINOGRADOV, N.P.,  
red.; IVANOV, V.A., red.; SKUF'IN, K.V., red.; SHEMYAKIN,  
I.Ya., red.; VOROTNIKOVA, R.V., red.; BERGARDT, N.Ye.,  
tekhn. red.

[Our region; articles and sketches on the nature of the  
native region] Nash krai; sbornik statei i ocherkov o pri-  
rode rodnoego kraia. Voronezh, Voronezhskoe knizhnoe izd-  
vo, 1962. 48 p. (MIRA 16:4)

1. Vserossiyskoye obshchestvo sodeystviya okhrane prirody.  
Voronezhskoye otdeleniye.  
(Voronezh Province—Natural resources)

VERESIN, Mikhail Mikhaylovich, MAMYRIN, Mikhail Alekseyevich;  
SHEMYAKIN, Ivan Yakovlevich; YAKUBYUK, Aleksey Nikolayevich;  
LITVINOV, I.V., red.; KARLOVA, G.L., tekhn. red.

[Centennial afforestation practices in the Savala Forest  
Tract] Stoletnii opyt lesorazvedeniia v saval'skom lesni-  
chestve. [By] M.M.Vereshin i dr. Moskva, Goslesbumizdat, 1963.  
159 p.  
(MLRA 17:4)

SHEMYAKIN, L.

Improve control over the housing funds of local soviets de-  
signated for capital repairs. Den. i kred. 17 no. 9:55-56  
S '59. (MIRA 12:12)  
(Housing--Finance)

SHEVAKIN, L.

Improve the control of the expenditures for major repairs of apartment houses. Zhil.-Kom.Khoz. 19 no.3:14-15 '60.

(MIRA 13:7)

(Apartment houses--Maintenance and repair)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549020017-2

URSSIN, RUF - SPANISH MUSICAL INSTRUMENTS, 21, K. POKROVSKAYA ST., KAMCHATKA, T.P.

RECEIVED FROM THE RUSSIAN FEDERATION ON 08/23/2000 BY THE RUSSIAN FEDERATION  
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1. SUBJECT: RE: REQUEST FOR INFORMATION FROM THE RUSSIAN FEDERATION, Moscow.

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CIA-RDP86-00513R001549020017-2"

VORONTSOV, N.N.; IVANOVA, O.Yu.; SHEMYAKIN, M.F.

Data on the winter feeding of the gnome owl (*Glaucidium passerinum*  
L.) Zool.zhur. 35 no.4:615-618 Ap '56. (MLRA 9:8)

1. Biologi-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.  
(Owls)

SHEMYAKIN, M.F.; KHESIN, R.B.

Formation of complexes of messenger ribonucleic acid with  
desoxyribonucleic acid. Dokl.AN SSSR 145 no.4:937-940 Ag '62.  
(MIR 15:7)

1. Predstavleno akademikom A.P.Aleksandrovym.  
(Nucleic acids)

SHEMYAKIN, M. P., GORLENKO, G. M., PASS, I. A., PROZOROV, A. A., and KHESIN, R. V.,

"Synthesis of specific RNA on Different Sites of the Phage T2 Chromosome in vivo  
and in vitro."

report submitted for the 11th Intl. Congress of Genetics, The Hague, Netherlands,  
2-10 Sep 63

ACC NR: AP6033074

SOURCE CODE: UR/0213/66/031/005/0910/0917

AUTHOR: Shemyakin, M. F.; Bass, I. A.; Kamzolova, S. G.; Morlenko, Zh. M.; Astaurova, O. B.; Khesin, R. B.

ORG: Order of Lenin Atomic Energy Institute im. I. V. Kurchatov, Moscow (Ordona Lenina institut atomnoy energii)

TITLE: Specificity of RNA synthesis in phage infection

SOURCE: Biokhimiya, v. 31, no. 5, 1966, 910-917

TOPIC TAGS: RNA, RNA synthesis, infective disease, bacteriophage, biochemistry, biosynthesis, ~~E. coli~~, ~~T2 phage~~, polymerase, ~~RNA~~  
~~polymerase~~

ABSTRACT: The specificity of RNA synthesis in different phases of T2 bacteriophage infections of *E. Coli* B and in an *in vitro* RNA polymerase system was investigated using labeled RNA. In early and late infectious stages, mRNA is synthesized largely on different regions of the T2 phage chromosome. Results of *in vitro* experiments show that RNA polymerase synthesizes RNA on the same regions of purified T2 phage which are active in intact cells during early stages of infection. Orig. art. has: 3 fig. and 1 table [LP]

[WA-50; CBE No. 14]

SUB CODE: 06/ SUBM DATE: 15Nov65/ ORIG REF: 004/ OTH REF: 014  
Card 1/1 UDC: 547.963.3

SHATYAKIN, M. V.

Practice of the civil telescope construction of the Herzen  
Soviet Institute of All-Union Astronomical and Geodetic Society.  
Vol. 1, N. 400 no. 29 (57-3) '61.  
(LNU 14:1)

Практика по строительству гражданской астрономико-геодезической телескопии  
(Телескоп)

300  
S/556/62/000/030/004/005  
D218/D308

3.1500

AUTHOR: Shemyakin, N. N.

TITLE: On some regularities in the disposition of crater chains  
in the region of the Clavius and Hipparchus lunar for-  
mations

SOURCE: Vsesoyuznoye astronomo - geodezicheskoye obshchestvo.  
'Byulleten'. no. 30 (37), Moscow, 1962, 33-38

TEXT: It is pointed out that the Rutherford crater which lies on  
the south-eastern part of the Clavius wall, is the first of a  
series of craters running along the bottom of the Clavius ring in  
the form of a spiral. The members of the spiral crater chain have  
gradually reducing diameters and distances. Five members of the  
spiral chain can be seen even with moderately sized telescopes.  
The author gives plots of the crater diameter and distance between  
successive craters in such spirals as functions of the running  
number of the craters in the chain. The resulting graphs are near-  
ly parabolic in form. Thus, the ratio of diameters for neighbor-

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On some regularities ...

S/556/62/000/030/004/005  
D218/D308

ing craters  $d_n/d_{n+1}$  and distances between their centers  $s_n/s_{n+1}$  for the Clavius spiral are as follows:

n	1	2	3	4	5
$d_n/d_{n+1}$	1.61	1.41	1.46	1.22	1.28
$s_n/s_{n+1}$	1.33	1.29	1.27	1.12	-

A. S. Pormin (Leningrad) has pointed out to the author that there is a similar crater chain in the region of the Hipparchus ring. It consists of four craters and lies on the southern part of the ring. The results for this chain are as follows:

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on some regularities ...

S/556/62/000/030/004/005  
D218/D308

n	1	2	3
$d_n/d_{n+1}$	1.38	1.50	1.29
$s_n/s_{n+1}$	1.50	1.10	-

A further case quoted is that of a chain in which the crater diameters decrease on either side of a main crater. If it is assumed that the craters in each of these chains are in some way related, and are produced as a result of a single process, then it must also be assumed that this process occurred over a very long period of time and the smaller craters were produced much later than the large ones. Thus spiral crater chains may have some connection with the process of formation of the lunar surface. There are 9 figures.

X

ASSOCIATION: Moskovskoye otdeleniye VAGO (Moscow Division of VAGO)

SUBMITTED: October, 1960

Card 3/3

3279  
32500 (1040)

S/026/62/000/002/003/004  
DO36/D113

AUTHOR: Shemyakin, M.M. (Moscow)

TITLE: Remarkable chains of lunar craters

PERIODICAL: Priroda,<sup>51</sup> no 2, 1962, 100-101

TEXT: Photographs of telescopic observations showed that some of the craters in the Clavius cirque formed a regular curve, starting with the Rutherford crater and proceeding down to the floor of the cirque. The diameter of each successive crater was also found to be roughly 1.4 times less than that of the preceding crater, so that each crater has an area roughly half that of the preceding one. The distances between the craters are also governed by the law of geometrical progression. Further examination showed that the Clavius cirque itself is the first member of a similar chain, including the Longomontanus, Wilhelm and Heinsius craters and two other craters. The most remarkable chain of this kind is one consisting of 8 craters in the region of the partially destroyed Hipparchus cirque. It has the form of a necklace,

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S/026/62/000/002/003/004

D036/D113

Remarkable chains of lunar craters

with the Hailey crater in the center and the smaller craters located on either side of it. In the eastern section of this chain, the 2nd and 5th craters are missing, while the other craters correspond to the 3rd, 4th, 6th and 7th terms of progression. In the place of the missing craters, there are elevations rather like the central peaks found in many craters. Such an elevation was also observed in place of the 5th crater of the western section of the chain. A crater in the southern wall of Clavius, almost equal in diameter to the 3rd crater in the Clavius chain already described, hints at the presence of a second section of this chain, whose continuation is lost in the neighboring Blanchanus crater. In this second section, the place of the second crater is also occupied by a rocky peak. Other chains of craters governed by these regularities were found on the Moon. On the basis of these findings the author concludes that the craters were formed by a single process; the fact that craters of widely varying ages are involved, tends to refute the theory that the tiny craterlets are of meteoric origin, and suggests that they may be the result of internal volcanic processes. There are 2 figures.

4

Card 2/2

SHEMYAKIN, M.M.

Homemade telescopes. Priroda 51 no.11:123-126 N '62.  
(MIRA 15:11)  
1. Moskovskoye otdeleniye Vsesoyuznogo astronomo-  
geodezicheskogo obshchestva.  
(Telescope)